

S/N: 10/675,835

Atty Dkt No. GP-303217 (GM0404PUS)

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (original) A vehicle comprising:
a steering column including a steering shaft; a steering hand wheel operatively connected to the steering shaft; a by-wire braking system responsive to electronic control signals; a driver-operable control input device supported by the steering column and including a member manipulable by a driver; and a transducer operatively connected to the member to convert the effects of driver manipulation of the member to electronic control signals and transmit the electronic control signals to the by-wire braking system.
2. (original) The vehicle of claim 1, wherein the member is a braking ring adjacent to the steering hand wheel.
3. (original) The vehicle of claim 2, wherein the steering hand wheel and the braking ring are characterized by a common axis of rotation.
4. (withdrawn) The vehicle of claim 1, wherein the member is a button on the steering hand wheel.
5. (withdrawn) The vehicle of claim 1, wherein the member is a pressure-sensitive pad on the steering wheel.
6. (withdrawn) The vehicle of claim 5, wherein the steering hand wheel is characterized by a rim, and wherein the pressure-sensitive pad is on the rim.

S/N: 10/675,835

Atty Dkt No. GP-303217 (GM0404PUS)

7. (withdrawn) The vehicle of claim 1, wherein the member is a stalk mounted on the steering column.

8. (original) A vehicle having a passenger compartment and an engine compartment, the vehicle comprising:

a steering column including a rotatable steering shaft extending from the passenger compartment to the engine compartment;

a steering hand wheel operatively connected to the steering shaft for unitary rotation therewith;

a by-wire braking system responsive to electronic control signals;

a driver-operable control input device supported by the steering column and including a braking ring manipulable by a driver and connected to the steering wheel for unitary rotation therewith; and

a transducer operatively connected to the braking ring to convert the effects of driver manipulation of the braking ring to electronic control signals and transmit the electronic control signals to the by-wire braking system.

9. (currently amended) A vehicle having a brake-by-wire input arrangement, the vehicle comprising:

a steering column including a steering shaft;

a steering hand wheel operatively connected to the steering shaft;

a brake-by-wire input device including a member on the steering column or the steering hand wheel and manipulable by a driver; [[and]]

a transducer operatively connected to the member to convert driver manipulation of the member to electronic braking control signals;

a plurality of sensors adapted to monitor a plurality of vehicle characteristics and generate sensor signals in response to said vehicle characteristics;

a controller configured to generate a plurality of actuator control signals in response to said electronic braking control signals and said sensor signals; and

a braking system actuator configured to generate predetermined mechanical responses to said actuator control signals.

S/N: 10/675,835

Atty Dkt No. GP-303217 (GM0404PUS)

10. (currently amended) The ~~brake-by-wire input arrangement~~ vehicle of claim 9, wherein the member is a braking ring adjacent to the steering hand wheel.

11. (currently amended) The ~~brake-by-wire input arrangement~~ vehicle of claim 10, wherein the steering hand wheel and the braking ring are characterized by a common axis of rotation.

12. (withdrawn) The brake-by-wire input arrangement of claim 9, wherein the member is a button on the steering hand wheel.

13. (withdrawn) The brake-by-wire input arrangement of claim 9, wherein the member is a pressure-sensitive pad on the steering wheel.

14. (withdrawn) The brake-by-wire input arrangement of claim 13, wherein the steering hand wheel is characterized by a rim, and wherein the pressure-sensitive pad is on the rim.

15. (withdrawn) The brake-by-wire input arrangement of claim 9, wherein the member is a stalk mounted on the steering column.